

Application No.: 09/990601

Case No.: 57135US002

**Amendments to the Claims:**

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

1-29. (CANCELLED)

30. (Currently amended) A flame-retardant containing plastic pallet comprising a plastic pallet composition comprising

- a) one or more of polyolefin resins or blends thereof comprising 51 to 99 parts by weight of at least one of a fully prepolymerized uncrosslinked hydrocarbon polyolefin resin and a fully prepolymerized uncrosslinked functionalized polyolefin resin, the parts by weight being based on the total composition, wherein said hydrocarbon polyolefin is present in the range of 25 to 99 parts by weight of the total composition and said functionalized polyolefin is present in the range of 0 to 50 parts by weight of the total composition, and

- b) one or more of thermosetting resins comprising 1 to 49 parts by weight of a curable thermosetting resin, the parts by weight being based on the total composition,

all of said resins being free of halogen,

wherein said plastic pallet contains at least one flame retardant, where all of the flame retardant(s) in said plastic pallet are selected only from the group consisting of non-halogenated flame retardants.

31. (CANCELLED)

32. (Previously Presented) The plastic pallet according to claim 30 wherein said thermosetting resin is an epoxy resin selected from the group consisting of epoxide, oxirane and ethoxyline resins having one or more of aliphatic, cycloaliphatic, and aromatic backbones optionally having one or more of hydroxyl, acrylate, ethylenic unsaturation, and carboxylic acid ester functionality.

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33. (Previously Presented) The plastic pallet according to claim 30 comprising structural foam comprising an integral skin and cellular core.

34. (Previously Presented) The plastic pallet according to claim 30 further comprising one or more of bubbles, glass fibers, and glass beads as fillers.

35. (Previously Presented) The plastic pallet according to claim 30 further comprising an antimicrobial additive.

36. (Previously Presented) The plastic pallet according to claim 30 wherein said flame retardant is selected from the group consisting of ammonium phosphates, compounds containing phosphorus-nitrogen bonds, and cyclic phosphates.

37. (Previously Presented) The plastic pallet according to claim 30 wherein said flame retardant is present in an amount in the range of more than zero and up to and including 25 parts by weight of the total polymeric composition.

38-45. (CANCELLED)

46. (Previously Presented) The plastic pallet according to claim 30 further comprising at least one radio frequency identification (RFID) tag.

47. (Previously Presented) The plastic pallet according to claim 30 further comprising one or more of performance enhancement additives selected from the group consisting of a friction material on at least one surface of said pallet, antimicrobial additives, mildewcides, foaming agents, and fillers.

48. (Previously Presented) The plastic pallet according to claim 30 further comprising a friction material on at least one surface of said pallet.

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49. (Currently Amended) The plastic pallet according to claim 30 wherein

~~a) said one or more of said polyolefin resins or blends thereof comprises 51 to 99 parts by weight of at least one of a fully prepolymerized uncrosslinked hydrocarbon polyolefin resin and a fully prepolymerized uncrosslinked functionalized polyolefin resin, the parts by weight being based on the total composition, wherein said hydrocarbon polyolefin is present in the range of 25 to 99 parts by weight of the total composition and said functionalized polyolefin is present in the range of 0 to 50 parts by weight of the total composition, and~~

~~b) said one or more of said thermosetting resins comprising at least one epoxy resin that comprises 1 to 49 parts by weight of a curable thermosetting resin, the parts by weight being based on the total composition~~

said plastic pallet further comprises at least one antimicrobial additive.

said plastic pallet further comprises friction material on at least one surface of said pallet.

and

said plastic pallet further comprises at least one radio frequency identification (RFID) tag.

50. (Currently Amended) The plastic pallet according to claim 49 ~~30~~ wherein said at least one prepolymerized uncrosslinked hydrocarbon and functionalized polyolefin resins are is selected from the group consisting of homopolymers, copolymers, blends with other polyolefins, blends with high impact polymers and blends with rubbers or elastomers.

51. (Previously Presented) The plastic pallet according to claim 47 wherein said performance enhancement additives are present in the range of more than 0 to 70 parts by weight of the weight of the total composition.

52. (Previously Presented) The plastic pallet according to claim 30 wherein said thermosetting resin is selected from the group consisting of epoxy, curable polyolefins, ethylene propylene rubber, ethylene butylenes rubber, phenolics, polyurethanes, unsaturated polyesters, furan, allyls, vinyls, silicones, alkyds, nitrile rubber, and functionalized rubber.

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53. (Previously Presented) The plastic pallet according to claim 30 wherein said thermosetting resin is an epoxy resin.

54. (CANCELLED)

55. (Currently Amended) The plastic pallet according to claim 30 wherein said one or more polyolefin resins are is selected from the group consisting of alpha-olefins, copolymers of said alpha-olefins, and functionalized polyolefin wherein the functionalized groups include one or more of O, N, S, and P atoms.

56. (Previously Presented) The plastic pallet according to claim 30 wherein said plastic pallet composition further comprises a photoactivatable catalyst selected from the group consisting of an onium salt photoinitiator and a cationic organometallic complex salt.

57. (Currently Amended) The plastic pallet according to claim ~~30~~ ~~55~~ wherein said plastic pallet composition further comprises a thermal curing agent is selected from the group consisting of aliphatic or aromatic primary, secondary, or tertiary amines, boron trifluoride complexes, imidazoles, hydrazines, and guanidines.

58. (Previously Presented) The plastic pallet according to claim 30 wherein said polymeric composition is cured.

59. (Previously Presented) The plastic pallet according to claim 58 which comprises a semi-interpenetrating polymer network.

60. (Previously Presented) The plastic pallet according to claim 35 wherein said antimicrobial additive is integrally associated with said container and is substantially insoluble in water.

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61. (Previously Presented) The plastic pallet according to claim 60 wherein said antimicrobial additive is selected from the group consisting of mildewcides, antiseptics, disinfectants, sanitizers, germicides, algacides, slimicides, antifouling agents, biocides, and preservatives.

62. (Previously Presented) A flame-retardant containing plastic pallet composition comprising

- a) one or more of polyolefin resins or blends thereof, and
  - b) one or more of thermosetting resins,
- all of said resins being free of halogen,

wherein said plastic pallet contains at least one flame retardant, where all of the flame retardant(s) in said plastic pallet are selected only from the group consisting of non-halogenated flame retardants,

said plastic pallet further comprising an antimicrobial additive that is integrally associated with said plastic pallet and is substantially insoluble in water, said antimicrobial additive being selected from the group consisting of mildewcides, antiseptics, disinfectants, sanitizers, germicides, biocides, and preservatives.

63. (Currently Amended) A flame-retardant containing plastic pallet comprising a plastic pallet composition comprising

- a) one or more of polyolefin resins or blends thereof comprising 51 to 99 parts by weight of at least one of a fully prepolymerized uncrosslinked hydrocarbon polyolefin resin and a fully prepolymerized uncrosslinked functionalized polyolefin resin, the parts by weight being based on the total composition, wherein said hydrocarbon polyolefin is present in the range of 25 to 99 parts by weight of the total composition and said functionalized polyolefin is present in the range of 0 to 50 parts by weight of the total composition, and
- b) one or more of thermosetting resins comprising 1 to 49 parts by weight of a curable thermosetting resin, the parts by weight being based on the total composition, all of said resins being free of halogen,

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wherein said plastic pallet contains at least one flame retardant, where all of the flame retardant(s) in said plastic pallet are selected only from the group consisting of non-halogenated flame retardants,

said plastic pallet composition further comprising a thermal curative or a photocatalyst.

64. (Currently Amended) A flame-retardant containing plastic pallet comprising a plastic pallet composition comprising

a) one or more of polyolefin resins or blends thereof comprising 51 to 99 parts by weight of an least one of a fully prepolymerized uncrosslinked hydrocarbon polyolefin resin and a fully prepolymerized uncrosslinked functionalized polyolefin resins, the parts by weight being based on the total composition, wherein said hydrocarbon polyolefin is present in the range of 25 to 99 parts by weight of the total composition and said functionalized polyolefin is present in the range of 0 to 50 parts by weight of the total composition, and

b) one or more of ~~thermosetting~~ epoxy resins comprising 1 to 49 parts by weight of a curable epoxy resin, the parts by weight being based on the total composition,

all of said resins being free of halogen,

wherein said plastic pallet is a molded pallet that contains at least one flame retardant, where all of the flame retardant(s) in said plastic pallet are selected only from the group consisting of non-halogenated flame retardants, and

wherein said molded plastic pallet further comprises in-mold applied friction material laminated adhesive-free to at least one surface of said pallet.

65. (Currently Amended) A flame-retardant containing plastic pallet comprising a plastic pallet composition comprising

a) one or more of polyolefin resins or blends thereof, and

b) one or more of thermosetting resins,

all of said resins being free of halogen, and

wherein said plastic pallet comprises one or more molded member(s),

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wherein ~~said~~ one or more of said molded members comprises in-mold applied friction material on at least one surface of said molded member(s), and  
wherein said plastic pallet contains at least one flame retardant, where all of the flame retardant(s) in said plastic pallet are selected only from the group consisting of non-halogenated flame retardants.